

From: [McCarter, Jennifer](#)
To: [Bailley, Treasure](#)
Cc: [Morrison, Kendra](#); [Jacobson, Linda](#); [Churchill, Stephen](#); [jill.parisi](#); [Kilty, Quinn V](#)
Subject: RE: Comanche field update 0811
Date: Monday, August 17, 2020 5:07:34 PM

Hi Treasure – here are updated water levels and summary of work last week and next steps. The field crew is off-site today and tomorrow returning Wednesday.

Water Levels

- W-2A ~ 25 ft
- W-2B ~ 53-69 ft
- W-7 ~ 5 ft
- W-8 –DRY at temp well screened across alluvium/weathered shale
- MW-1 ~28 ft
- MW-2 ~16 ft
- MW-4 ~35 ft
- Total of 7 borings drilled over last two weeks
- Water observed in most borings approximately 15-30 ft deep, in weathered bedrock/upper fractured shale; all wells except W-2B are screened above the competent shale
- Completing permanent wells at W-2A, W-7, W-8, MW-1, MW-2 and MW-4
- Temp well at W-2B, continue to monitor water levels
- Slug testing and well development this week, starting Wednesday
- W-8 remains dry, but will install permanent well to continue to monitor; plan to drill second deeper boring adjacent to W-8, similar to W-2 to confirm if dry in deeper bedrock; this will complete this phase of the drilling program; based on observed water levels, we do not plan to drill the NW perimeter well
- After well development, collect site-wide groundwater samples for App. 3&4 constituents
- Identify groundwater flow direction and gradient; review sample results; evaluate need for potential additional borings in second phase

Jennifer McCarter, R.E.M.

Xcel Energy

Environmental Analyst

Environmental Services Department

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From: Bailley, Treasure <Bailley.Treasure@epa.gov>

Sent: Monday, August 17, 2020 3:10 PM

To: McCarter, Jennifer <jennifer.mccarter@xcelenergy.com>

Cc: Morrison, Kendra <Morrison.Kendra@epa.gov>; Jacobson, Linda <Jacobson.Linda@epa.gov>; Churchill, Stephen <Churchill.Stephen@epa.gov>; jill.parisi <jill.parisi@state.co.us>; Kilty, Quinn V <quinn.v.kilty@xcelenergy.com>

Subject: RE: Comanche field update 0811

EXTERNAL - STOP & THINK before opening links and attachments.

Hi Jennifer, how'd the rest of the drilling go last week?

From: McCarter, Jennifer <jennifer.mccarter@xcelenergy.com>

Sent: Wednesday, August 12, 2020 8:42 AM

To: Bailey, Treasure <Bailey.Treasure@epa.gov>

Cc: Morrison, Kendra <Morrison.Kendra@epa.gov>; Jacobson, Linda <Jacobson.Linda@epa.gov>; Churchill, Stephen <Churchill.Stephen@epa.gov>; jill.parisi <jill.parisi@state.co.us>; Kilty, Quinn V <quinn.v.kilty@xcelenergy.com>

Subject: Comanche field update 0811

Hi Treasure, All – summary of Tuesday's work; continuing to monitor water levels to confirm when static/stabilized

- MW-1 well set w/screen across the water in the lower weathered shale/upper fractured shale (25-40ft); water at 28.65
- MW-2 is at 40 ft; continued coring. No alluvium or colluvium, thin layer of topsoil over weathered shale; water at 20ft
- W-2A water 24.43 ft bgs
- W-2B difficulty reading water level due to conductivity; appears to be at 68.55 ft bgs, but will continue to monitor
- W-7 water 4.74 ft bgs
- W-8 dry

Jennifer McCarter, R.E.M.

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